

HYDROTRON DHYD SERIES

Wet Collector Downdraft Workstations



Maximizing the Work Environment

Safety

Drawing particulate directly into the water, the Hydrotron DHYD Wet Collector Station provides safe collection of aluminum, titanium, and other potentially hazardous dust, as well as heavy sparking applications, meeting or exceeding OSHA and NFPA regulations for dust removal inside the building.

Energy Savings

Recirculation of clean, tempered air saves on heating and cooling costs.

Customization

The Hydrotron DHYD is built to dimensions needed for size of operation and available plant space. Options include special features such as a crane slot, pneumatic turntable, up/down tables, adjustable regain air, automatic vent fan, casters, and auxiliary switches.

Added Environmental Control

The optional clear plastic workstation enclosure provides for containment, integral fluorescent lighting, and regain air. The optional Filter 1 "Push-Pull" Regain Air System takes a portion of the filtered air and discharges it down toward the table top to "push" as the blower simultaneously "pulls" the dirty air into the table grating.

FILTER 1

Current Technology

Water Filter System: The Hydrotron Wet Dust Collector Systems purify air by a combination of centrifugal force and the violent mixing of water and contaminated air. As the air stream passes the fixed baffles, particulate is separated by a heavy, turbulent curtain of water created by high velocity air. The centrifugal force caused by the rapid changes in airflow direction forces the dust particles to penetrate the water droplets and become entrapped. Contaminated water is then removed from the airstream by special mist filters. Dust, as sludge, settles to the bottom and the water is reused.

Automatic Fill System: Water make-up is controlled by a pressure sensor system that is unaffected by debris in the water. The system is operated by a solid state programmable logic controller (PLC) and includes an electrical solenoid valve, isolation valve, and a manual fill/high-water sensor for reliable water control.

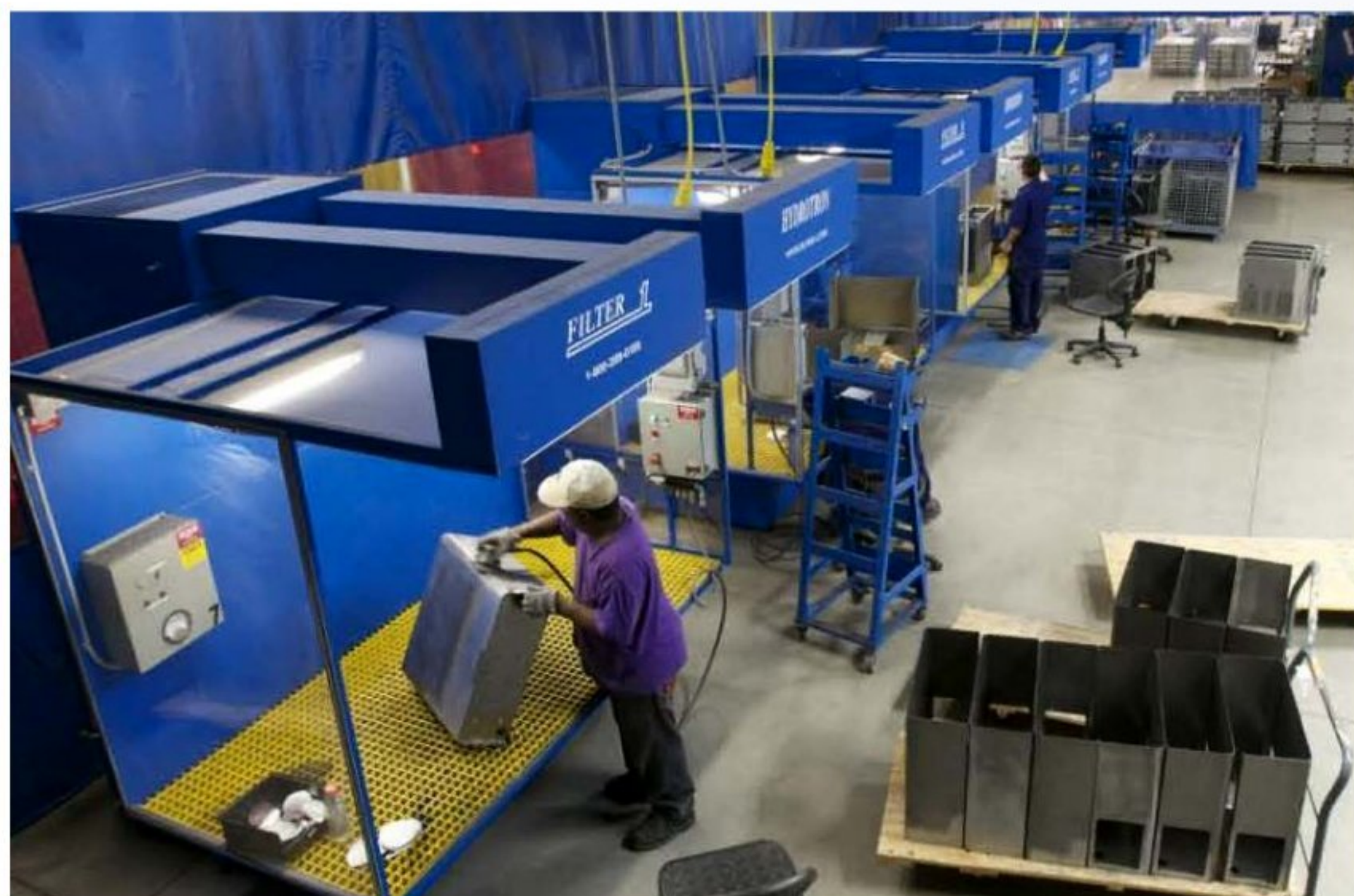


1-800-289-0189

Wet Collector Workstations

HYDROTRON DHYD SERIES

Wet Collector Single and Dual Workstations



Selected User List

American Airlines	U.S. Air Force
Boeing Corporation	Dupont Corporation
Northrop Grumman	Lockheed Martin
General Electric	GKN Aerospace
Raytheon	Bendix Corporation
Pratt Whitney	Lithonia Lighting
Team Rahal Racing	Delta Airlines

Hydrotron DHYD Single Station

MODEL	CFM	DIMENSIONS*	HP
DHYD1-30-5-4	3,000	1 Table 30"x48"	5
DHYD1-30-5-3	3,000	1 Table 30"x36"	5
DHYD1-30-5-4-3	3,000	1 Table 36"x48"	5
DHYD1-30-5-5	3,000	1 Table 30"x60"	5
DHYD1-30-5-6	3,000	1 Table 30"x72"	5
DHYD1-50-10-4	5,000	1 Table 30"x48"	10
DHYD1-50-10-4-3	5,000	1 Table 36"x48"	10
DHYD1-50-10-5-3	5,000	1 Table 36"x60"	10
DHYD1-50-10-6-3	5,000	1 Table 36"x72"	10

Hydrotron DHYD Double Station

MODEL	CFM	DIMENSIONS*	HP
DHYD2-30-5-4	3,000	2 Tables 30"x48"	5
DHYD2-50-10-5-3	5,000	2 Tables 36"x60"	10
DHYD2-50-10-5	5,000	2 Tables 30"x60"	10
DHYD2-50-10-4	5,000	2 Tables 30"x48"	10
DHYD2-50-10-4-3	5,000	2 Tables 36"x48"	10
DHYD2-50-10-5-3	5,000	2 Tables 36"x60"	10
DHYD2-50-10-6	5,000	2 Tables 30"x72"	10

*Larger / Custom Sizes Available: Consult Factory.

Features

- TEFC Motors, Single and Three Phase
- Direct Drive/Non-overloading Fan
- Interior Baffle Section
- Mist Eliminator Filters
- Solid State PLC, Electronic Water Level Control by Fan Pressure
- Construction: Galvanized Steel With Coal Tar Epoxy Coatings to Interior Wet Surfaces
- Magnahelic Gauge
- Industrial Blue Enamel

Options

- Regain Air System
- Stainless Steel Construction
- Overflow/Low Water Alarm
- Overflow/Low Water Cut-off
- Explosion Proof Motors
- Crane Slot
- Pneumatic Turntable
- Automatic Vent Fan
- Casters
- Auxiliary Switches
- Up/Down Table

Typical Applications

- Aircraft manufacture/maintenance
- Manufacture of electrical enclosures
- Milling/refining
- Chemical, rubber, or plastics products
- Ceramics
- Foundries
- Sanding
- Grinding
- Polishing

Filter 1 has a policy of continuous design improvement and reserves the right to update designs and specifications without notice.

FILTER 1

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